

SEQUENCE LISTING

<110> Gerald, Christophe P.G.

Jones, Kenneth A.

Bonini, James A.

Borowsky, Beth

<120> DNA Encoding Mammalian Neuropeptide $\dot{F}F$ (NPFF) Receptors and Uses Thereof

<130> 1795/57155-A

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<150> 09/161,113

<151> 1998-09-25

<160> 42

<170> PatentIn Ver. 2.0 - beta

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<212> DNA

<213> Rattus norvegicus

<400> 1

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caacacteet eteeggtgge agecatgtte ategeggeet aegtgeteat etteeteete 240 tgcatggtgg gcaacaccct ggtctgcttc attgtgctca agaaccggca catgcgcact 300 gtcaccaaca tgtttatcct caacctggcc gtcagcgacc tgctggtggg catcttctgc 360 atgeceaeaa eeettgtgga caacettate aetggttgge ettttgaeaa egeeaeatge 420 aagatgageg gettggtgea gggeatgtee gtgtetgeat eggtttteae aetggtggee 480 ategetgtgg aaaggtteeg etgeategtg caccetttee gegagaaget gaccettegg 540 aaggegetgt teaceatege ggtgatetgg getetggege tgeteateat gtgteeeteg 600 geggteacte tgaeagteae eegagaggag cateaettea tgetggatge tegtaacege 660 tectaceege tetactegtg etgggaggee tggeeegaga agggeatgeg caaggtetae 720 accgcggtgc tettegegea catetacetg gtgeegetgg egeteategt agtgatgtae 780 gtgcgcatcg cgcgcaagct atgccaggcc cccggtcctg cgcgcgacac ggaggaggcg 840 gtggccgagg gtggccgcac ttcgcgccgt agggcccgcg tggtgcacat gctggtcatg 900 gtggcgctct tcttcacgtt gtcctggctg ccactctggg tgctgctgct gctcatcgac 960 tatggggage tgagegaget geaactgeae etgetgtegg tetaegeett eecettggea 1020 cactggctgg ccttcttcca cagcagcgcc aaccccatca tctacggcta cttcaacgag 1080 aactteegee geggetteea ggetgeette egtgeaeage tetgetggee teeetgggee 1140 gcccacaagc aagcctactc ggagcggccc aaccgcctcc tgcgcaggcg ggtggtggtg 1200 gacgtgcaac ccagcgactc cggcctgcca tcagagtctg gccccagcag cggggtccca 1260 gggcctggcc ggctgccact gcgcaatggg cgtgtggccc atcaggatgg cccgggggaa 1320 gggccaggct gcaaccacat gcccctcacc atcccggcct ggaacatttg aggtggtcca 1380 1410 gagaagggag ggccagtagt cctgtggccc

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<212> PRT

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Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val Glu Arg Phe Arg Cys Ile Val His Pro Phe Arg Glu Lys Leu Thr Leu Arg Lys Ala Leu Phe

Thr Ile Ala Val Ile Trp Ala Leu Ala Leu Leu Ile Met Cys Pro Ser

Gln Asn Gly Ser Asp Val Glu Thr Ser Met Ala Thr Ser Leu Thr Phe

Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Leu Asp
180 185 190

Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro 195 200 205

Glu Lys Gly Met Arg Lys Val Tyr Thr Ala Val Leu Phe Ala His Ile 210 215 220

Tyr Leu Val Pro Leu Ala Leu Ile Val Val Met Tyr Val Arg Ile Ala 225 230 235 240

Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Arg Asp Thr Glu Glu Ala 245 250 255

Val Ala Glu Gly Gly Arg Thr Ser Arg Arg Arg Ala Arg Val His
260 265 270

Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu 275 280 285

Trp Val Leu Leu Leu Leu Ile Asp Tyr Gly Glu Leu Ser Glu Leu Gln
290 295 300

Leu His Leu Leu Ser Val Tyr Ala Phe Pro Leu Ala His Trp Leu Ala 305 310 315 320

Phe Phe His Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu
325 330 335

Asn Phe Arg Gly Phe Gln Ala Ala Phe Arg Ala Gln Leu Cys Trp

340 345 350

Pro Pro Trp Ala Ala His Lys Gln Ala Tyr Ser Glu Arg Pro Asn Arg 355 360 365

Leu Leu Arg Arg Arg Val Val Val Asp Val Gln Pro Ser Asp Ser Gly 370 375 380

Leu Pro Ser Glu Ser Gly Pro Ser Ser Gly Val Pro Gly Pro Gly Arg
385 390 395 400

Leu Pro Leu Arg Asn Gly Arg Val Ala His Gln Asp Gly Pro Gly Glu
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Gly Pro Gly Cys Asn His Met Pro Leu Thr Ile Pro Ala Trp Asn Ile
420 425 430

<210> 3

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<212> DNA

<213> Homo sapiens

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gtctgtttca tcgtgctcaa 200

<210> 4

<211> 66

<212> PRT

<213> Homo sapiens

<400> 4

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1 5 10 15

Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe Ser Ser Tyr
20 25 30

Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val Ala Tyr Ala
35 40 45

Leu Ile Phe Leu Cys Met Val Gly Asn Thr Leu Val Cys Phe Ile
50 55 60

Val Leu

65

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<212> DNA

<213> Homo sapiens

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<210> 6

<211> 420

<212> PRT

<213> Homo sapiens

<400> 6

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15

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Pro Ser Ala Val Met Leu His Val Gln Glu Glu Lys Tyr Tyr Arg Val Arg Leu Asn Ser Gln Asn Lys Thr Ser Pro Val Tyr Trp Cys Arg Glu Asp Trp Pro Asn Gln Glu Met Arg Lys Ile Tyr Thr Thr Val Leu Phe Ala Asn Ile Tyr Leu Ala Pro Leu Ser Leu Ile Val Ile Met Tyr Gly Arg Ile Gly Ile Ser Leu Phe Arg Ala Ala Val Pro His Thr Gly Arg Lys Asn Gln Glu Gln Trp His Val Val Ser Arg Lys Lys Gln Lys Ile . 260 Ile Lys Met Leu Leu Ile Val Ala Leu Leu Phe Ile Leu Ser Trp Leu Pro Leu Trp Thr Leu Met Met Leu Ser Asp Tyr Ala Asp Leu Ser Pro Asn Glu Leu Gln Ile Ile Asn Ile Tyr Ile Tyr Pro Phe Ala His Trp

Leu Ala Phe Gly Asn Ser Ser Val Asn Pro Ile Ile Tyr Gly Phe Phe 325 330 335

Asn Glu Asn Phe Arg Arg Gly Phe Gln Glu Ala Phe Gln Leu Gln Leu 340 345 350 .

Cys Gln Lys Arg Ala Lys Pro Met Glu Ala Tyr Ala Leu Lys Ala Lys 355 360 365

Ser His Val Leu Ile Asn Thr Ser Asn Gln Leu Val Gln Glu Ser Thr 370 375 380

Phe Gln Asn Pro His Gly Glu Thr Leu Leu Tyr Arg Lys Ser Ala Glu 385 390 395 400

Lys Pro Gln Gln Glu Leu Val Met Glu Glu Leu Lys Glu Thr Thr Asn 405 410 415

Ser Ser Glu Ile

420

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<213> Homo sapiens

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aacaccctgg tctgtttcat cgtgctcaag aaccggcaca tgcatactgt caccaacatg 240
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cttgtggaca acctcatcac tgggtggccc ttcgacaatg ccacatgcaa gatgagcggc 360 ttggtgcagg gcatgtctgt gtcggcttcc gttttcacac tggtggccat tgctgtggaa 420 aggtteeget geategtgea ecettteege gagaagetga eeetgeggaa ggegetegte 480 accategoeg teatetggge cetggegetg eteateatgt gteectegge egteacgetg 540 acceptcacce gtgaggagca ccactteatg gtggacgece geaaccepte ctaccetete 600 tactcctgct gggaggcctg gcccgagaag ggcatgcgca gggtctacac cactgtgctc 660 ttctcgcaca tctacctggc gccgctggcg ctcatcgtgg tcatgtacgc ccgcatcgcg 720 cgcaagctct gccaggccc gggcccggcc cccgggggcg aggaggctgc ggacccgcga 780 gcatcgcggc gcagagcgcg cgtggtgcac atgctggtca tggtggcgct gttcttcacg 840 ctgtcctggc tgccgctctg ggcgctgctg ctgctcatcg actacgggca gctcagcgcg 900 cegeagetge acctggteac egtetacgee tteceetteg egeactgget ggeettette 960 aacaqcaqcq ccaaccccat catctacggc tacttcaacg agaacttccg ccgcggcttc 1020 caggeegect teegegeeeg cetetgeeeg egecegtegg ggageeacaa ggaggeetae 1080 teegagegge eeggegget tetgeacagg egggtetteg tggtggtgeg geecagegae 1140 teegggetge cetetgagte gggeeetage agtggggeee ceaggeeegg eegeeteeeg 1200 ctgcggaatg ggcgggtggc tcaccacggc ttgcccaggg aagggcctgg ctgctcccac 1260 ctgccctca ccattccagc ctgggatatc tga 1293

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<211> 430

<212> PRT

<213> Homo sapiens

<400> 8

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Gln Asn Gly Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe
20 25 30

Ser Ser Tyr Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val

Ala	Tyr	Ala	Leu	Ile	Phe	Leu	Leu	Cys	Met	Val	Gly	Asn	Thr	Leu	Val
	50					55					60				
Cvs	Phe	Ile	Val	Leu	Lvs	Asn	Ara	His	Met	His	Thr	Val	Thr	Asn	Met
- 65					70		9			75					80
Phe	Ile	Leu	Asn	Leu	Ala	Val	Ser	Asp	Leu	Leu	Val	Gly	Ile	Phe	Cys
				85					90					95	
Met	Pro	Thr	Thr	Leu	Val	Asp	Asn		Ile	Thr	Gly	Trp		Phe	Asp
			100					105					110		
Asn	Ala	Thr	Cys	Lys	Met	Ser	Gly	Leu	Val	Gln	Gly	Met	Ser	Val	Ser
		115					120					125			
Ala	Ser	Val	Phe	Thr	Leu	Val	Ala	Ile	Ala	Val	Glu	Arg	Phe	Arg	Cys
	.130					135					140				
Tlo	Val	Uic	Pro	Pho	Λκα	Glu	Luc	Lou	Thr.	Lou	Λνα	Luc	Δla	Ĩ.e.i	Val
145	vaı	1113	110	THE	150	Giu	nys	цец	1111	155	Arg	цуз	AIG	рец	160
Thr	Ile	Ala	Val	Ile	Trp	Ala	Leu	Ala	Leu	Leu	Ile	Met	Cys	Pro	Ser
				165					170					175	

Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp Glu Ala Trp Pro

Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His Phe Met Val Asp

Glu Lys Gly Met Arg Arg Val Tyr Thr Thr Val Leu Phe Ser His Ile Tyr Leu Ala Pro Leu Ala Leu Ile Val Val Met Tyr Ala Arg Ile Ala Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Pro Gly Gly Glu Glu Ala Ala Asp Pro Arg Ala Ser Arg Arg Arg Ala Arg Val Val His Met Leu Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro Leu Trp Ala 280. · 285 Leu Leu Leu Ile Asp Tyr Gly Gln Leu Ser Ala Pro Gln Leu His Leu Val Thr Val Tyr Ala Phe Pro Phe Ala His Trp Leu Ala Phe Phe Asn Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn Glu Asn Phe Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Arg Leu Cys Pro Arg Pro

Ser Gly Ser His Lys Glu Ala Tyr Ser Glu Arg Pro Gly Gly Leu Leu

His Arg Arg Val Phe Val Val Val Arg Pro Ser Asp Ser Gly Leu Pro 370 375 380

Ser Glu Ser Gly Pro Ser Ser Gly Ala Pro Arg Pro Gly Arg Leu Pro
385 390 395 400

Leu Arg Asn Gly Arg Val Ala His His Gly Leu Pro Arg Glu Gly Pro 405 410 415

Gly Cys Ser His Leu Pro Leu Thr Ile Pro Ala Trp Asp Ile
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<211> 23

<212> DNA

<213> Artificial Sequence

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<221> misc_feature

<222> (1)..(23)

<223> n = any nucleotide

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gyntwyrynn tnwsntgght ncc

23

<210> 10

<211> 23

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<223> n = any nucleotide
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<211> 25
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<223> Description of Artificial Sequence: primer/probe
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<223> Description of Artificial Sequence: primer/probe
<400> 20
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atgcc
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<212> DNA

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<210> 31
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gaccacacac tggaacctat ctac	24
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<210> 39
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<223> Description of Artificial Sequence: primer/probe
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<210> 40
<211> 19
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: primer/probe
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acgggttacg agcatccag
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<210> 41
<211> 27
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<223> Description of Artificial Sequence: primer/probe
<400> 41
gatcagtgga ttggtccagg gaatatc
                                                                   27
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ccaggtagat gttggcaaac agcac